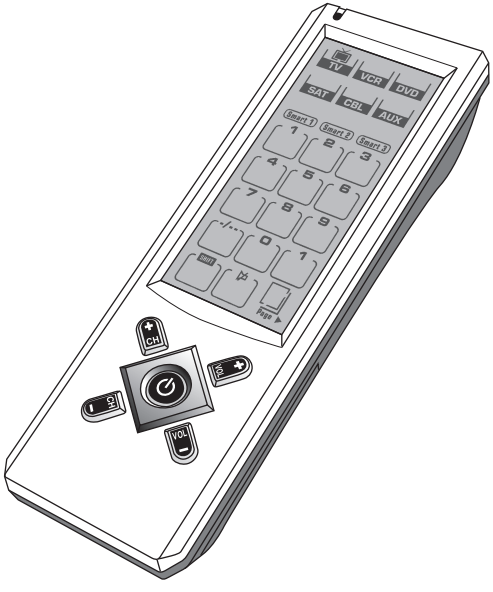
HOME THEATRE MASTER REMOTE

Universal Touch Screen Remote Control

Owner's Manual



1 Introduction

Congratulations! Your Home Theatre Master Remote (HTMR) is a state-of-the-art device which integrates many different infrared remote controls to deliver instant A/V action to your fingertips. We hope that you love this remote and take it as your Personal Digital Assistant for your Home Theatre system.

Before operating the remote, please read thoroughly this manual. Then, reserve it for future reference.

1.1 Key Features

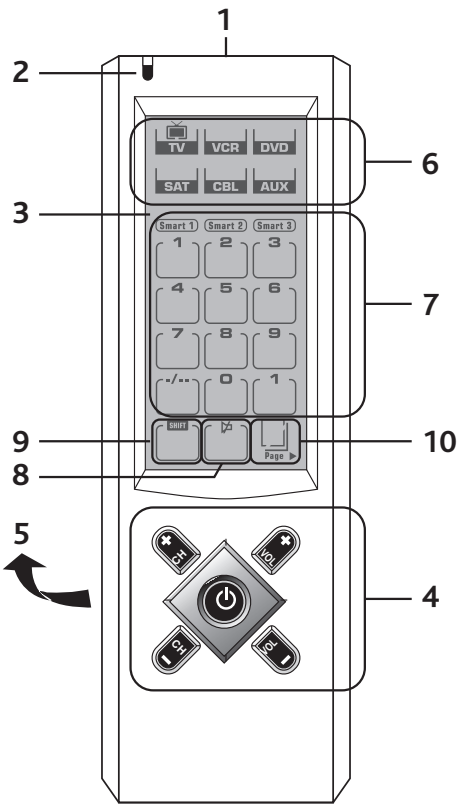
- Pre-programmed with learning capability
- 6-in-1 high end Home Theatre remote (replace TV, VCR, SAT, CTV, DVD and AUX)
- Learn up to 120 commands
- EL backlit touch screen panel
- 5 useful hard keys for direct access (⏻, **CH+**, **CH–**, **VOL+**, **VOL–**)
- Easy set up by code entering and library code search
- 3 SMART programs, each with 15 steps in maximum
- Volume punch through control for TV
- Teletext and Fastext control available
- Auto power off (Sleep mode) for battery conservation

1.2 Getting to know your Home Theatre Master Remote

1. Infra-red lens
2. Green LED indicator
3. Touch screen panel
4. Hard keys
5. Battery compartment

For Touch Screen panel:

6. Device mode keys (for device mode selection)
7. Function keys (for remote operation)
8. MUTE key (for TV volume shut down)
9. SHIFT key (for secondary function)
10. PAGE key (for next group function keys)



1.3 Specifications

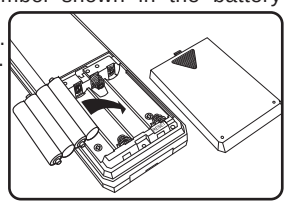
Operation System:	Integrated preprogrammed & learning infra-red remote control system
Compatibility:	Preprogrammed with code library of Televisions (TVs), Video Cassette Recorders (VCRs), Satellite / Digital Satellite Receivers (SATs), Cable Converters (CTVs) and Digital Video Disc Players (DVDs)
Memory Capacity:	120 learning commands
Memory Retention after Battery Disconnection:	Non-volatile and permanent memory
Display Panel:	Monochrome touch screen LCD
EL Backlighting:	Blue-Green EL backlit
Operating Distance:	8 metres (25 feet)
Power Requirement:	4 x AAA size batteries (Alkaline is recommended)
Dimensions:	154 x 52 x 23 mm
Weight :	100g (without batteries installed) 140g (with batteries installed)

For improvement purposes, specifications and functions are subjected to change without priority notice.

1.4 How to Install Batteries

Alkaline batteries are recommended.

1. Open the battery cover.
2. Follow the polarity symbol shown in the battery compartment.
3. Place the batteries inside.
4. Replace the battery cover.



Note: Battery Low

If the icon " ▭ " is shown on the display panel, it shows that the battery level is low. You must replace the battery with the new one to ensure proper functioning. Do not use old and new batteries together as old batteries tend to leak.

2 Getting Start

- ❑ After installed batteries, your HTMR prompts at **TV** mode. If it is inactive for about 4 seconds, it goes to power saving (sleep) mode and shut down the display. Simply, touch the screen panel to activate the unit again.

  Note: When in power saving (sleep) mode, the hard key section is still available for command.

- ❑ Tap any of the Device Mode Key on the screen to enter the corresponding device mode. e.g. **TV** . The " 📺 " icon will flash.

- ❑ Tap a key directly to send out the corresponding infra-red command.

2.1 Hard Keys

There are 5 hard keys, it transmits IR command corresponding to the device selected.

- ⏻ Power ON/OFF
- **CH+** Program up or channel up
- **CH−** Program down or channel down
- **VOL+** Volume up
- **VOL−** Volume down

2.2 Key Tone

When you tap any key, there is a short beep sound.

2.3 Backlit

Blue-Green EL Backlit will be turned on once you tap the remote. The backlit will be turned off automatically if the remote is not active for 4 seconds.

3 How to Set Up the Home Theatre Master Remote

3.1 By Entering Device Code

You may setup the remote by the following code entering instructions.

1. Refer to the *Device Code List*, look up the 4-digit device code which corresponds to the brands of your A/V equipment. If there are more than one device code listed under your brand, try from the first code.
2. Press a desired device mode key (e.g. **TV** , " " icon will flash)
3. Hold down " **CH+** " and " **VOL–** " on the remote simultaneously for 2 seconds until the indicator lights up.
4. Input the 4-digit device code, the indicator should flash twice.

Turn on your device (e.g. TV), try the function keys on the remote. If your device (e.g. TV) responds to your invoked function correctly, you have entered the right device code. Otherwise, repeat the above setup instructions with the rest available device codes until your device (e.g. TV) responds to your invoked function, and most keys work correctly.

* *Simply repeat the above procedures to enter the device codes for your VCR, SAT, DVD or CTV. (Remember to press a correct device mode key in step 2 above.)*

Note:

– DVD, CTV, SAT and other device codes can be entered into any device modes except "TV" & "VCR" modes. Just simply press the device mode key and enter your 4-digit device code for DVD, CTV, SAT and other devices.

– If the indicator flashes 6 times in step 4, a wrong device code has been entered. You are required to repeat step 2 to 4 again.

Suggestion:

– If you cannot find a correct device code for your equipment, see " ***3.2 By Searching Through the Library*** ".

3.2 By Searching Through the Library

If you cannot identify a correct device code for your equipment from the *Device Code List*, you may search the code through the library:

1. Turn on your device manually (e.g. TV).
2. Press a desired device mode key (e.g. **TV** , " " icon will flash)
3. Hold down " **CH+** " and " **VOL–** " on the HTMR simultaneously for 2 seconds until the indicator lights up.
4. Enter a corresponding *Magic Search Code* from the following table. The indicator should go out immediately.

DEVICE TYPE:	TV	VCR	SAT	CTV	DVD
MAGIC SEARCH CODE:	0001	0002	0003	0004	0005

(e.g. press **TV** *device mode key, then press " **CH+** " and " **VOL–** ", and enter TV Magic Search Code 0001.)*

5. Press the same desired device mode key again as in step 2 above. (e.g. **TV**)
6. Hold down " **CH+** " and " **VOL–** " simultaneously for 2 seconds until the indicator lights up, and your HTMR is ready to start searching.
7. Aim the HTMR at your device (e.g. TV), press the " ⏻ " key repeatedly, slowly and patiently until the device has been turned off. Once your device has been turned off, immediately press the device mode key (e.g. **TV**) to lock in code and the indicator should go out.

* *Simply repeat the above setup procedures to search the device code for your VCR, SAT, DVD or CTV. (Remember to press a correct device mode key and correct Magic Search Code in step 2 to 5 above.)*

IMPORTANT:

– If the power on/off function of your device is not infrared controlled — you need to follow step 2 to 6 above and start searching.

Press " ⏻ " and another important function key alternately until your device responds to the expected function, press the device mode key (e.g. **TV**) to lock in the code.

e.g. Press " ⏻ " & " 1 " alternately, or
Press " ⏻ " & " ▶ " alternately.

Note:

– DVD, CTV and other device codes can be searched and locked into any device modes except "TV" & "VCR" modes. Just simply press the corresponding device mode key in step 2 & 5 and enter an appropriate *Magic Search Code* for your DVD, CTV and other devices.

– Each time you press the " ⏻ ", the HTMR will skip to the next code and send out a POWER signal trying to turn off your device.

  If you failed to stop pressing " ⏻ " in time when your device has been turned off, turn on your device again immediately. Before the indicator goes out, press " ⏮ " on the HTMR to skip backward. Repeat the step 7 above and lock in code.

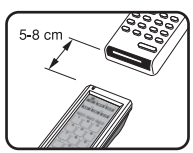
– If the indicator flashes 6 times after your pressing of " ⏻ " key, you are already at the last code of the library. Press the device mode key (e.g. **TV**) to resume the HTMR and repeat carefully the above procedures to search again.

4 How to Set Up Your HTMR (Learning Commands)

Your HTMR is factory preprogrammed to operate your TVs, VCRs, SATs, CTVs & DVDs. Due to the limited number of key, some minor function may not be included. You may teach your remote with the original A/V remote to operate any excluded function by your choice.

Besides the preprogrammed devices, you may also teach your HTMR to operate other infra-red controlled equipment and appliances, such as HiFi, etc. Your HTMR can learn and reproduce up to 120 commands from other remote controls. All 6 device modes (TV, VCR, DVD, SAT, CTV, AUX) can be taught to operate additional commands:–

1. Press a desired device mode key (e.g. **TV**, " 📺 " icon will flash).
2. Hold down " **CH+** " & " **VOL–** " on the remote simultaneously for 2 seconds until the indicator lights up.
3. Enter the *Magic Learn Code – 0000*, the " **Learn** " icon will light up and your HTMR is ready to learn commands.
4. Aim your A/V remote control to the HTMR infra-red lens on a flat surface, with 5-8 cm apart. Make sure your A/V remote control is with fresh batteries.



5. Press and release a desired keys on the HTMR you want to hold the command. Now, the device mode key icon (e.g. 📺) will stop flashing.
6. Press and hold the corresponding key on your A/V remote control to transfer the command. The indicator will flash twice and the device mode key icon (e.g. 📺) will flash again when the command is copied. You can release the key on the A/V remote control. If the indicator flashes 6 times, it shows error in learning process. Adjust the position of both remote controls and repeat step 5 to 6 again.

7. Repeat step 5 to 6 to transfer other signals into next function key. When you finish the whole device mode, press the same device mode key (e.g. **TV**) again to store your setting.

4.1 Advance Learning – Teaching a Dual Signal

If you found a learned command work for your A/V equipment only occasionally, your original remote control may contain dual signals. Try the following steps to reprogram this command:

1. Follow step 1 to 4 of " ***4 How to Set Up Your HTMR (Learning Commands)*** ".
2. Press and release a desired keys on the HTMR you want to hold the command. The device mode key icon (e.g. 📺) will stop flashing.
3. Press and hold the corresponding key on your A/V remote control to transfer the command. The indicator will flash twice and the device mode key icon (e.g. 📺) will flash again. The first signal has been transferred successfully and you can release the key on the A/V remote control.
4. Press and release the same button on the HTMR again. The device mode key icon (e.g. 📺) will stop flashing.
5. Press and hold the same corresponding key on your A/V remote control until the indicator will flash twice and the device mode key icon (e.g. 📺) flash again. The dual signal command has been transferred successfully.
6. Repeat step 2 to 5 of this procedure to transfer other signals if there is any.
7. When finished, press the same device mode key again to store your setting.

Warning:
Entering a new preprogrammed device code will automatically erase and replace all learned commands in the chosen device mode.

Note:

– Do not attempt to learn additional commands with the *Device Mode Keys*, " **Page ▶** " *Key* & **SHIFT** *Key*. They will not hold commands by themselves.

– Each function key will hold one command only, a new command to be learned will automatically erase and replace the previous one.

– If you have accidentally pressed an unexpected key in step 5 above, you have to wait 30 seconds until the indicator goes out and the HTMR will go back to normal operation. You may repeat the above procedures to setup the remote again.

– If the indicator flashes 6 times during the transference of the signals, this tells you the memory bank is full. Press the same device key again to resume normal operation. (You may erase the learned commands in a device mode and make room for any new signal. See "***Warning***" above.)

5 Operating the Remote

5.1 Normal Operation

Once you have setup the remote for your A/V equipment, it works like your original remote controls. To operate, just aim it at your equipment, press an appropriate device mode key and invoke the desired function by pressing a corresponding key on the remote. The indicator flashes and you can hear beep sound during signal transmission as confirmation of key touch.

5.2 Page

Each device mode contains 3 groups of commands. You can simply tap the " **Page ▶** " key on the right bottom corner of the remote panel to turn to another command group.

5.3 Shift

By pressing " SHIFT " key followed by one of the hard key, you can control the following function for your TVs.

SHIFT **CH+**	Brightness up
SHIFT **CH–**	Brightness down
SHIFT **VOL+**	Colour up
SHIFT **VOL–**	Colour down

5.4 Punch Through

Punch through allows you to operate TV's volume and mute functions without having to switch the device modes repeatedly even when your remote is in other operating modes.

However, if you have learned commands on **VOL+**, **VOL–** or 🔇 in the device mode (VCR, DVD, SAT, CTV or AUX), the punch through function will be disabled in that corresponding device mode.

5.5 Advanced Function – Smart Program

Create a chain of multiple commands – your remote comes with 3 programmable ***Smart*** programs (Smart 1 , Smart 2 , Smart 3) each with maximum 15 key steps. With the help of ***Smart***, you can program a group of commands in time delay to execute in a chain of infra-red signal simply by a press of ***Smart***.

6 Program a Smart

1. Hold down " **CH+** " & " **VOL–** " on the HTMR simultaneously for 2 seconds until the indicator lights up.
2. Enter the *Magic Code – 0009*.
3. The ***Smart*** icons will flash.
4. Select a desired ***Smart*** key. (e.g. Smart 1)
5. Select a command from the corresponding device mode and indicator will flash once for each key.
6. Repeat step 5 until you finish the whole program and press the same ***Smart*** key (e.g. Smart 1). The ***Smart*** program is stored.
7. To program another ***Smart***, repeat the steps 1 to 6 above.

6.1 Operating a Smart Program

1. Aim your remote at the equipment.
2. Press and release the ***Smart*** key that you have programmed (e.g. Smart 1). The corresponding ***Smart*** icon and the indicator will flash slowly during transmission of the signals. The ***Smart*** icon and the indicator will stop flashing when the chain of infra-red signals has been transmitted completely. The remote will go back to normal.

7 Maintenance

– Do not expose your HTMR to dust, strong sunlight, humidity, high temperature or mechanical shock.
– Do not use old and new batteries together as old batteries tend to leak.
– Do not use corrosive or abrasive cleansers on your HTMR.
– Keep the unit dust free by wiping it with a soft, dry cloth.
– Do not disassemble your HTMR, it contains no user-serviceable parts.

8 Troubleshooting

Q. My remote does not work all !!!

A. Check your A/V device, if the main switch of the device is turned off, your remote could not operate it.
A. Check whether your batteries are inserted properly and are in correct +/– marks.
A. If the batteries are weak, replace the batteries. See " ***1.4 How to Install Batteries*** ".

Q. If several device codes listed under the brand of my A/V device, how can I select the correct device code?

A. To seek the correct device code for your A/V device, test the code one by one until most keys work properly.

Q. My A/V equipment responds only to some of the commands.

A. You have set a code for which only some commands work properly but some do not. Try other codes until most keys work properly.

A. You can also copy from the original A/V remote. See " ***4 How to Set Up Your HTMR (Learning Commands)*** ".

Q. My remote indicator shows error in learning commands from other A/V remote control.

A. Make sure you are aiming your A/V remote control at the HTMR infra-red lens on a flat surface with 5-8 cm apart.

A. Make sure the learning procedures are carried out in an environment free from direct sunlight and /or strong light.

A. Clean the infra-red transmission diode/lens of your A/V remote and try again.

A. Check the batteries inside the A/V remote control. If the batteries are weak, the remote cannot learn command properly.

A. Make sure the distance between the A/V remote and your HTMR is remained the same throughout the whole learning procedures.

Q. Some learned commands in my remote do not work.

A. Those signals are not learned properly. Try to teach your HTMR again for those functions.

Q. Some learned commands in my remote work occasionally.

A. Your original A/V remote may carry dual signal commands. You have to go through the section " ***4.1 Advanced Learning – Teaching a Dual Signal*** ".

Q. What is SMART?

A. It is an advanced feature of your HTMR which allows you to program a series of commands in appropriate time delay. By simply a press of the selected ***Smart*** button, your HTMR will execute a chain of infra-red signals automatically. For details, please refer to section " ***5.5 Advanced Function – Smart Program*** ".

9 Device Code List

TV Device

Model	Code
ACCENT	0651
ADMIRAL	0121 0411 0451 0911
AGEF	0121
AIKO	0221 0591 0651 0891
AIM	0651
AKAI	0221 0651 1191 1351 1981
AKIBA	0591 0651
AKITO	0651
AKURA	0651 1331 1561 2691
ALBA	0101 0651 1331 2201
ALBIRAL	1971
ALLSTAR	0591 0651
AMSTRAD	0101 0651 1301 1511
ANAM	1171
ANITECH	0651
ANSONIC	0621 0651 0681
ARCAM	0571
ARC EN CIEL	0331 0571 0901 1571 1681 1811 1821
ARDEM	1421
ARISTONA	0591 0651
A.R. SYSTEMS	0591 0651
ARTHUR MARTIN	0451
ASA	0121 0411 0451 0781 0871
ASBERG	0651
ASTRA	1511
ATLANTIC	0651
ATORI	1511
AUDIOSONIC	0101 0651 1181 1321 1421 1511 1571
AUDIOTON	1421
AUTOVOX	0091 0121 0231 0351 0951 1051 1391
AWA	0491 0651
BAIRD	1101 1351 1571 1791 2721
BANG & OLUFSEN	0121
BARCO	0391
BASIC LINE	0651 1321 1331
BAUER	1451
BAUR	0041 0061 0101 0131 0221 0231 0651 1561
BEKO	0651 1421 2311 2321
BEON	0101 0651
BESTAR	0591 0651
BLACK DIAMOND	2661
BLAUPUNKT	0241 0251 0471 0521 0601 0741 2121 2131
BLUE SKY	0651
BPL	0651
BRANDT	0331 0551 0571 0731 0901 1131 1571 1681 1811 1821
BRIGMTON	1321 1511
BRINKMANN	0591 0651
BRIONVEGA	0121 0651 1051
BRUNS	0121 0821 0991

BSR	0691 1621 1901 1981
BUSH	0101 0261 0391 0451 0621 0651 1331 1741 2111
BUSH (UK)	0261 1561 1611
CANDLE	0791
CARAD	0651
CARENA	0591 0651
CASCADE	0651
CASIO	0651
CATHAY	0101 0651
CCE	0651
CENTURION	0101 0651
CENTURY	0121
CGE	0391 0811 0981 1371 1401 1531 1611 1621 1641 1891 1941 1981
CITIZEN	0791
CLARIVOX	0101 0821 0961 1971
CLATRONIC	0651 1181 1331
CONCERTO	0791
CONDOR	0651
CONTEC	0151 1171
CONTINENTAL	0901 1571 1681
CONTINENTAL EDISON	0331 0571 0731 1811 1821
CRAIG	1171
CROSLEY	0021 0121 1371 1401 1641 1891 1941 1981
CROWN	0101 0651 1421 2331
CTC CLATRONIC	0261
CXC	1171
DANSAI	0101 0651
DANTAX	1421
DAEWOO	0101 0621 0651 1501 1511 2371
DAWA	0231 0651
DAYTRON	0651
DECCA	0101 0271 0581 0651 0971 1101 1691
DECCA (UK)	0271 0581 1101
DEGRAAF	0451 1351
DEITRON	0651
DESMET	0591 0651
DIAMANT	0591 0651
DIGILINE	0651
DIXI	0101 0651 0991 1511
DORIC	1031
DREAN	0651
DUAL	0091 0231 0571 0651 1611 1791 2081
DUAL-TEC	1511 1621 2091
DUMONT	0121 0261 0751 1981 2101
DUX	0651
D-VISION	0591
DYNATRON	0591 0651
ELBE	0651 1551 1971
ELCIT	0121
ELECTRO TECH	1511
ELEKTRONSKA	0771
ELG	0651
ELIN	0101 0651
ELITE	0651
ELMAN	0261 1621
ELTA	1511
EMERSON	0121 0221 0651 0921 1121 1171 1261 1301

ERRES	0101 0651
ESC	0651
ETRON	0591 0651 1981
EUROMAN	0591 0651
EUROPA	0651
EUROPHON	0261 0581 0591 0651 0771 1091 1621 2001
EXQUISIT	0651
FENNER	0621 1511
FERGUSON	0101 0281 0291 0371 0551 0861 0881 1131 1181 1301 1361 1461 1571 1971 2151 2181 2631 2721
FIDELITY	0221 0231 0451 0651
FIDELITY (UK)	0561 1931
FILMNET	1141
FINLUX	0021 0101 0121 0261 0651 0751 0781 0811 0871 1981 2101
FIRST LINE	0651 1511 1981
FISHER	0021 0091 0141 0231 0511 0781 0801 0821 0981 1981
FLINT	0651
FORMENTI	0101 0121 0391 0451 1451 1541 1981
FORMENTI-PHOENIX	0021 0431 0451
FORTRESS	0121
FRABA	0591 0651
FRIAC	0651
FRONTECH	0451 1181 1981
FUJITSU	1261
FUNAI	0691 1171 1181 1261
FUTURETECH	1171
GALAXI	0651
GALAXIS	0591 0651
GBC	0021 0141 0391 1321 1511 1621 1981
GE	0291 0731 1131 1571 1791
GEC	0101 0451 0651 1101 1281 2161
GEC (UK)	0031 0081 0581 1101 1561
GELOSO	0021 0411 0451 1321 1511 1621 1981
GENERAL	0731 1411 1571
GENERAL TECHNIC	2431
GENEXXA	0451 0651 1331
GOLDSTAR	0101 0651 0791 1491 1511 1561 1621
GOODMANS	0101 0141 0291 0621 0651 1101 1131 1791 2141
GORENJE	0981 1061
GRAETZ	0221 0451
GRADIENTE	0651
GRANADA	0101 0141 0291 0451 0581 0651 1101 1111 1131 1351 1981 2161
GRANADA (UK)	0081 0141 0451 0581 1031 1311 1521 1561
GRANDIN	0651
GRUNDIG	0471 0581 0651 0711 0741 0751 1691 2021 2041 2461 2471
HANSEATIC	0021 0101 0141 0221 0231 0431 0591 0651 1561
HANTAREX	0581 0591 0651
HANTOR	0651
HARWOOD	0651

HAUPPAUGE	0651
HCM	0651
HIFIVOX	1571 1681 1811 1821
HIGHLINE	0651
HINARI	0071 0101 0141 0451 0651 1261
	1351 1511 1981 2011
HITACHI	0001 0011 0031 0081 0141 0341
	0451 0651 0701 0901 1281 1561
	1601 1681 1791 1831 1841 1861
	1871 1881 1981 2161 2181
HORNYPHONE	0591 0651
HUANYU	0621
HYPER	1511 1621
HYPERSONIC	0221
HYPSON	0101 0651
IBERIA	0651
ICE	0651
IMPERIAL	0391 0451 0651 0811 0981 1371
	1401 1611 1621 1681 1891 1941
INDIANA	0101 0651
INGERSOL	1511
INNO HIT	0581 0651 0841 1101 1331 1511
	2011
INNOVATION	2351 2361 2371 2381 2391 2401
	2411 2461 2471 2501 2511 2521
INTERFUNK	0031 0101 0181 0221 0451 0651
	1571 1811 1821 1981
INTERNAL	0651
INTERVISION	0101 0651 1421
IRRADIO	0101 0651 1321 1331 1511 2011
ISUKAI	0651 1331
ITC	0391
ITS	0651
ITT	0031 0051 0071 0081 0181 0221
	0231 0411 0451 1291 1351 1501
	1601 1741 1921 1981 2171
ITT-NOKIA	0031 0051 0071 0081 0181 0411
	0451 1291 1351 1501 1601 1741
	1921 1981 2171
ITV	0651
JVC	0071 0721 1441 1581 1741
KAISUI	0651 1321 1331
KARCHER	0591 0651 0841 1091 1321 1511
	1561
KATHREIN	0591
KENDO	0261 0651
KENNEDY	0021 0351 0391 0951 1981
KNEISSEL	0651 2651
KOLSTER	0591 0651
KONKA	0651 2451
KORPEL	0101 0651
KORTING	0121 0431 1011 1541
KOSMOS	0651
KTV	1171
LENCO	0121 0651
LENOIR	1511
LEYCO	0101 0651
LEYEO	1181
LG	0651
LIESENK & TTER	0101 0651
LIFETEC	0651 2351 2361 2371 2381 2391
	2401 2411 2421 2431 2441 2461
	2501 2511 2521

LOEWE	0061 0121 0651
LOEWE OPTA	0131 0581 0611
LOGIC	1691
LOGIK	0491
LOWEWE	0831
LUMA	0351 0451 0651 1901
LUMATRON	0651 2721
LUXMAN	0791
LUX MAY	0591 0651
LUXMAN STEREO TUNER	0791
LUXOR	0001 0181 0221 0341 0421 0451
	0461 0671 1351 1561 1601 1911
	1921 1981
LYCO	1181
MADIATOR	0101
MADISON	0651
MAGNADYNE	0021 0121 0261 0581 0641 0771
	1621 1981
MAGNAFON	0261 0581 0641 1091 2001
MAGNAVOX	0651
MAGNUM	2591 2611 2621 2631 2641
MANESTH	0651
MANHATTAN	0651
MARANTZ	0101 0591 0651
MARK	0101 0651
MARELLI	0121
MATSUI	0021 0101 0231 0451 0491 0651
	0691 1101 1151 1271 1301 1511
	1561 1691 2501 2511 2521 2671
	2681 2701 2711
MAXIMAL	0071 1981
MCMICHAEL	1281
MEDIATOR	0651
MEDION	0651 2351 2361 2371 2381 2391
	2401 2411 2421 2431 2441 2461
	2471 2501 2511 2521
M ELECTRONIC	0101 0621 0651 0781 1571 1791
MEMOREX	1511
MERCURY	0591 0651
METRO	2591 2601
METZ	0121 0741 1001 1041 1481 2061
	2071
MGA	1231
MICROMAXX	0651 2351 2381 2391 2401 2461
	2501 2511 2521
MINERVA	0751
MINOKA	0651
MITSUBISHI	0061 0121 0141 0201 0651 0661
	1191 1201 1231 1671 1691 1741
MIVAR	0501 0581 0771 1431 2541 2551
	2571
MORGAN'S	0651
MTC	0061 0791
MULTITEC	0651
MULTITECH	0261 0581 0641 0651 0981 1321
	1421 1511
MURPHY	0451 0781
MURPHY (UK)	0081 1031
N.E.I.	0101 0651 0961
NAD	1341
NAIKO	0651

NAKIMURA	0651
NEC	0141 0651 1721 1731
NECKERMANN	0101 0121 0451 0591 0651 0981
	1081 1561 1931 1981
NEUFUNK	0651
NEWTECH	0591 0651 1791
NICAM	0231
NIKKAI	0101 0651 1101 1331 1701 2011
NOBLEX	0651
NOBLIKO	0261 0641
NOGAMATIC	0571 1571 1681 1811 1821
NOKIA	0031 0051 0071 0081 0181 0221
	0411 0451 1291 1351 1501 1601
	1741 1921 1981 2031 2171 2281
	2531
NORDMENDE	0031 0291 0451 0541 0571 0651
	0731 0901 1051 1131 1571 1681
	1791 1811 1821
NOVATRONIC	0651
OCEANIC	0221 0321 1651 1981
OCEANIC (F)	0031 0321 0441 1661
OKANO	0591 0651
ONWA	1171
OPERA	0591 0651
ORBIT	0591 0651
ORION	0101 0231 0651 0691 0851 1211
	1251 1301 1481 1511 1691 1801
	1981 2211 2261
ORLINE	0651
OSAKA	2011
OSAKI	0651 1101 1331 2011
OSIO	0651
OSUME	0151
OTTO VERSAND	0021 0041 0061 0101 0141 0391
	0591 0651 1561 1571 1741 1981
PALLADIUM	0651
PALSONIC	0311 0481 0531 0631 06541 2231
PANAMA	0651
PANASONIC	0031 0201 0211 0451 0651 0701
	1311 1751 1961 2341 2481
PANAVISION	0591 0651
PANORAMIC	2191
PATHE' CINEMA (F)	0391 0431 1621 1661 1971
PATHE MARCONI	0331 0571 0901 1571 1681 1811
	1821
PAUSA	1511
PAUZA	1511
PERDIO	0651 0891 1101
PERFEKT	0591 0651
PHILCO	0021 0121 0391 0651 0811 0981
	1371 1401 1611 1621 1641 1751
	1891 2271 2291
PHILIPS	0101 0121 0361 0591 0621 0651
	0681 0761 1021 1281 1791
PHOENIX	0121 0651 1081 1421
PHONOLA	0101 0121 0651
PIONEER	0451 0651 1341 1421 1571 1791
PLANTRON	0591 0651
POLICOM	1821
PRANDONI-PRINCE	0411 0451 0581
PRANDONI-PROMCE	0451 0581
PRIMA	0451

PROFEX	0221 1981
PROFI-TRONIC	0591 0651
PROLINE	0551 0651
PROSONIC	0621 0651
PROVISION	0651
PROTECH	0101 0391 0641 0651 1181 1981
PYE	0591 0651
QUELLE	0041 0061 0101 0221 0231 0391
	0491 0521 0601 0651 0751 0781
	1371 1381 1571 1641 1811 1891
	1941
R-LINE	0101 0651
RADIALVA	0651 1571
RADIOLA	0101 0651 0681
RADIOMARELLI	0121 0451 0651 0661 0771 1081
RADIONETTE	0031
RADIOSHACK	0651
RADIOTONE	0591 0651
RBM	0751 2111
RCA	0291 0551 1131
RECOR	0651
RECTILIGNE	0651
REDIFFUSION	0221 0451 0661 1981 2171
REDIFFUSION (UK)	0081 1031
REDSTAR	0651
REFLEX	0651
REX	0071 0351 0411 0451 0951 1901
	2051 2081 2091
RFT	0121 0991
REVOX	0101 0651
ROADSTAR	0651 1321 1511
ROBOTRON	0121
ROTEL	0151
SABA	0121 0301 0421 0451 0541 0551
	0571 0581 0731 0901 0931 1071
	1131 1571 1681 1791 1811 1821
SACCS	1971
SAISHO	0231 0451 0491 1161 1301 1511
	1671 1691
SALORA	0011 0071 0221 0341 0451 0671
	1291 1351 1521 1561 1601 1911
	1921 1931 1981 2161
SAMBERS	0261 0581 0641 1091 2001
SAMSUNG	0101 0591 0651 0841 0981 1101
	1181 1511 2011 2581
SANSUI	0591 0651
SANYO	0141 0151 0401 0491 0651 0781
	0801 0821 0981 1101 1111 1291
	1351 1691 1741
SAVE	0651
SBR	0101 0651 1281
SCHAUB LORENZ	0221 0451
SCHNEIDER	0021 0071 0091 0101 0231 0451
	0511 0651 0681 1321 1361 1621
	1791 2081 2091
SCOTT	1171 1261
SEG	0261 0391 0651 0821 0991
SEI	0041 0121 0641 0651 0691 1301
	1481 1981
SELECO	0071 0351 0411 0451 0951 1901
	2051 2081 2091
SENTRA	1601

SHARP	0141	0151	0191	1761	1781	
SIAM	0651					
SIAREM	0021	0121	0261	0581	0641	1981
SICATEL	1971					
SIEMENS	0101	0151	0451	0521	0601	0651
	0741	2011	2121	2131		
SIERA	0651					
SIERRA	0591					
SILVA	0651					
SILVER	1181					
SINGER	0021	0121	0261	0651		
SINUDYNE	0021	0041	0121	0231	0261	0641
	0651	0691	0851	0941	1301	1321
	1481	1631	1981			
SKANTIC	0451					
SOLAVOX	0451	2011				
SONNECLAIR	0651					
SONOKO	0101	0651	1181	1511		
SONTEC	0101	0651				
SONY	0041	0141	0171	0491	1121	1691
	1941	2491	2561			
SOUNDESIGN	1171					
SOUND & VISION	0621					
SOUNDWAVE	0101	0651				
SSS	1171					
STANDARD	0651					
STAR LITE	0591	0651				
STERN	0071	0351	0411	0451	0951	1901
	2051	2081	2091			
STRATO	0651					
SUNKAI	0651	0691				
SUNSTAR	0651					
SUNWOOD	0591	0651				
SUPERTECH	0651					
SUPRA	0621	0791				
SUSUMU	1131					
SYSLINE	0101					
TANDBERG	0161	0611	1571	1681	1771	2071
TANDY	0451	0191	1331	1531		
TASHIKO	0141	1281				
TATUNG	0101	0271	0581	0651	0691	0971
	1101	1691	2641			
TCM	2381	2391	2461	2501	2511	2521
TEAC	0651					
TEC	0391	1131	1411			
TECH LINE	0651					
TECHNICS	1311					
TECHWOOD	0791					
TEKNIKA	1171	1231	1261			
TELE	1141					
TELEAVIA	0331	0571	0731	1241	1571	1681
	1811	1821				
TELECOR	0651					
TELEFUNKEN	0301	0551	0571	0651	0731	1131
	1371	1381	1411	1421	1471	1571
	1591	1641	1681	1791	1801	1811
	1821	1891	1941	1991	2721	
TELEFUSION	0651					
TELEGAZI	0591	0651				
TELEMEISTER	0651					
TELESONIC	0591	0651				
TELESTAR	0651					

TELETECH	0651	1511				
TEMPEST	0651	2221	2231	2241	2251	
TENSAI	0651	1331				
TEVION	0651					
THOMSON	0291	0331	0551	0571	0651	0731
	0901	1131	1241	1411	1571	1681
	1791	1811	1821			
THORN	0101	0221	0651	0741	0781	0861
	1131	1371	1641	1941	2721	
THORN-FERGUSON	0281	0371	0861	0881	1181	1361
	1461	1971				
TMK	0141	0791				
TOKAI	0591	0651				
TOSHIBA	0141	0381	0751	1221	1271	1701
	1711	1741	1851			
TOWADA	0391					
TRANS CONTINENS	0451	0651				
TRANSONIC	0651					
TRIUMPH	0581	0651	2101			
UHER	0431	0451	0511	0651	1311	1421
	1541					
ULTRAVOX	0021	0261	0651	1981		
UNIC LINE	0651					
UNITED	0651					
UNIVERSUM	0101	0391	0651	0781	1181	1571
	1811	1891	1941			
UNIVOX	0121	0591	0651	1971		
VEGAVOX	0811					
VESTEL	0101	0651				
VEXA	0591	0651	1511			
VICTOR	1441					
VIDEO SYSTEM	0591	0651				
VIDEOTON	2301					
VISION	0651					
VORTEC	0591	0651				
VOXSON	0121	0411	0451	0651		
WALTHAM	0451	0651	0731			
WATSON	0101	0431	0651			
WATT RADIO	0021	0231	0261	0391	0641	1091
	1971	1981	2001			
WEGA	0121	0141	0651	1981		
WELTBLICK	0591	0651				
WESTON	1621					
WHARFEDALE	0651					
WHITE WESTINGHOUSE	0101	0261	0431	0651	1401	1541
XRYPTON	0651					
YAMISHI	0651					
YAMASHI	0591					
YOKAN	0651					
YOKO	0101	0651	1511			
ZANUSSI	0071	0351	0411	0451	0951	1901
	2051	2081	2091			
ZOPPAS	0451					

VCR Device

Model	Code					
AIWA	0042	0352	0432			
AKAI	0042	0422	0492	0582	0612	0642
	0652	0762	0812	0912		
ALBA	0002	0112	0282	0332	0342	0972
AMSTRAD	0322	0432	0452			

ANITECH	0002					
ANITSCH	1002					
ASA	0012	0052				
AUDIOSONIC	0002					
BAIRD	0042	0282	0492			
BANG & OLUFSEN	0042					
BAUR	0052	0062	0812			
BLACK DIAMOND	0922	0972				
BLAUPUNKT	0062	0092	0252	0462	0672	0992
BRIONVEGA	0032					
BUSH	0002	0282	0332	0342	0512	0972
BUSH (UK)	0812					
CAPEHART	0112					
CGE	0042	0432	0762			
CRAIG	0072	0482				
CROWN	0112	0282	0622			
DAEWOO	0112	0282	0622			
DANSAI	0012					
DAYTRON	0112					
DECCA	0042	0052	0432	0942		
DECCA (UK)	0052					
DEGRAAF	0052	0132	0432	0532	0602	
DIXI	0442					
DUAL	0042	0632				
DUMONT	0052	0432	0532			
DYNATECH	0432					
DYNATRON	0012					
ELBE	0122					
ELIN	0072					
EMERSON	0012	0162	0202	0432	0512	0522
ERRES	0012					
FERGUSON	0042	0712	0722	0852	0902	1012
	1022	1082				
FIDELITY	0432					
FINLANDIA	0052	0532				
FINLUX	0012	0042	0052	0082	0262	0382
	0432	0462	0492	0532	0572	0602
	0912					
FIRST LINE	0002	0912				
FISHER	0162	0482	0532	0542	0572	0592
FORMENTI-PHOENIX	0012	0052				
FRONTECH	0112					
FUNAI	0432					
GBC	0002					
GEC (UK)	0022	0052				
GELOSO	0002					
GENERAL TECHNIC	1172					
GOLDSTAR	0012	0122	0812	0952		
GOODMANS	0002	0072	0282	0432	0502	
GOODMANS (UK)	0002					
GRAETZ	0022	0042				
GRANADA	0052	0132	0532	0572		
GRANADA (UK)	0052	0092	0462	0602	0812	0822
GRUNDIG	0052	0062	0092	0232	0252	0262
	0752	0802	1242	1252	1262	1272
	1282	1292	1302			
HANSEATIC	0052	0812				
HARMAN/KARDON	0122	0922				
HCM	0002					
HINARI	0002	0202	0412	0442	0522	
HITACHI	0042	0172	0292	0432	0602	0662
	0812	1022				

IMPERIAL	0072	0432				
INGERSOL	0442					
INNO HIT	0002	0052	0072			
INNOVATION	1142	1162	1172			
INTERFUNK	0022	0052				
IRRADIO	0002	0012				
ITT	0022	0032	0042	0072	0292	0492
	0532	0572	0762			
ITT-NOKIA	0022	0032	0042	0072	0292	0492
	0532	0572	0762			
JENSEN	0042					
JVC	0042	0102	0142	0272	0742	0762
	0782	0902				
KARCHER	0052	0072	0812			
KENDO	0492					
KENWOOD	0042	0142	0572			
LIFETEC	1142	1162	1172			
LLOYD	0432					
LOEWE OPTA	0052	0092	0152			
LOGIK	0002	0072	0442			
LUMA	0162					
LUXOR	0492	0572	0812			
M ELECTRONIC	0432					
MAGNADYNE	0052					
MAGNASONIC	0572					
MANESTH	0012					
MARANTZ	0012	0052	0092	0122	0502	
MARK	0012					
MARTA	0012					
MATSUI	0012	0032	0042	0052	0062	0442
	0512	0522	0812	0972	1202	1212
	1222	1232				
MEDION	1142	1162	1172			
MEMOREX	0012	0132	0432	0482	0532	0572
METZ	0062	0092	0932			
MGA	0912					
MICROMAXX	1142	1162	1172			
MINERVA	0062	0092	0252			
MINOLTA	0172	0602				
MITSUBISHI	0052	0062	0142	0912	0922	0972
MTC	0072	0432				
MULTITECH	0002	0052	0062	0282	0432	
MURPHY	0432					
N.E.I.	0012	0052				
NATIONAL	0462					
NEC	0042	0122	0142			
NECKERMANN	0032	0042	0052	0072	0092	0202
	0522	0572	0762	0812		
NIKKAI	0112					
NOBLIKO	0092					
NOKIA	0022	0032	0042	0072	0292	0492
	0532	0572	0762	1152		
NORDMENDE	0042	0102	0142	0192	0222	0242
	0392	0402	0632	0732	0742	0762
	0782	0792	0832	0842	0872	
OLYMPUS	0462					
OPTONICA	0132	0502				
ORION	0162	0202	0312	0442	0512	0522
	0982					
OSAKA	0432					
OSAKI	0002	0012	0432			
OTTO VERSAND	0052	0062	0812			

PANASONIC	0022	0212	0462	0672	0992	1092
	1102	1182				
PENTAX	0172	0602				
PERDIO	0432					
PHILCO	1062					
PHILIPS	0052	0082	0092	0152	0182	0362
	0372	0382	0472	0502	1072	
PHONOLA	0052	0152				
PILOT	0012					
PIONEER	0052	0142	0372	0472		
PORTLAND	0112					
PROLINE	0432					
PYE	0052	0152				
QUARTZ	0572					
QUELLE	0012	0032	0042	0052	0062	0072
	0092	0202	0462	0522	0942	
RADIONETTE	0022					
REALISTIC	0012	0072	0132	0432	0482	0502
	0532	0572				
RET	1072					
REX	0042	0742	0782			
RICOH	0952					
SABA	0042	0142	0192	0222	0242	0392
	0632	0732	0742	0762	0772	0782
	0792	0872				
SAISHO	0162	0202	0292	0442	0512	0522
	0972					
SALORA	0192	0572	0812	0822	0912	
SAMSUNG	0052	0072	0622	0652	1192	
SANSUI	0042	0142				
SANYO	0482	0532	0562	0572		
SBR	0052	0152	0182			
SCHAUB LORENZ	0022	0042				
SCHNEIDER	0002	0012	0052	0072	0432	
SEG	0002	0072				
SEI-SINUDYNE	0442					
SELECO	0042					
SENTRA	0112					
SHARP	0132	0502	0702			
SHINTOM	0002					
SIEMENS	0062	0092	0252	0572		
SINUDYNE	0052	0382	0442	0932		
SONITRON	0532	0572				
SONOKO	0282					
SONY	0432	0552	0682	0692	0942	0952
	0962	1122	1132			
STS	0602					
SUNKAI	0512					
SUNSTAR	0512					
SYLVANIA	0432	0912				
SYMPHONIC	0432	0912				
TANDBERG	0062	0162	0522	0932		
TASHIKO	0132	0432				
TATUNG	0042	0052	0432	0922		
TCM	1142	1162	1172			
TEAC	0042	0432				
TECHNICS	0462					
TEKNIKA	0012	0432				
TELEFUNKEN	0042	0192	0632	0732	0742	0762
	0782	0882	0892			
TEMPEST	1032	1042	1052			
TENOSAL	0002					

THOMSON	0042	0102	0142	0192	0402	0632
	0762					
THORN	0042	0902				
THORN-FERGUSON	0042	0222	0302	0712	0722	0742
	0762	0852	0862	0872	0902	
TMK	0522					
TONSAI	0002					
TOSHIBA	0042	0622	0912			
TOTEVISION	0012	0072				
TRIUMPH	0922					
UHER	0042	0072				
ULTRAVOX	0032					
UNITECH	0072					
VECTOR RESEARCH	0122					
VICTOR	0042	0102	0142			
VIDEON	1162	1172				
WELTBLICK	0012					
WHITE WESTINGHOUSE	0032					
XENON	0162					
YAMAHA	0042	0122				
YOKO	0012	0062	0072			

SAT Device

Model	Code					
AKAI	1273	1643				
AKENA	1303					
ALBA	0823	1273	1643	1813		
ALLSAT	1763					
AMSTRAD	0163	0793	1013	1023	1293	1583
	1593					
AST	0403					
ASTRA	1153					
ASTRO	1673					
AUSTAR	0123	1473	1733	1743		
BEKO	1813					
BLAUPUNKT	0963					
BMC SATELLITE	0103					
BRITISH TELECOM	1273					
BT	0953	1303	1643			
BUSH	0823					
CAMBRIDGE	0193	1273	1643			
CANAL+	1363	1783				
CANAL DIGITAL	1783					
CANAL SAT	1773					
CHAPARRAL	0013	0693	1003			
CITYCOM	1213					
CNT	1333					
COLUMBUS	0613					
CONNEXIONS	0303	0423				
CONRAD	1893					
CYRUS	1763					
D-BOX	1163	1903	1913			
DISCUS ELIPSE	0853	0863				
DISKXPRESS	0423					
DNT	1763					
DRAKE	0003					
ECHOSTAR	0223	0233	0603	0623	0663	0923
	0993	1043	1053	1063	1103	1783
ELTA	1283					
ELTA SAT	0143					

EURODEC	1223	1233	1243			
EUROSTAR	0993					
FERGUSON	0183	0843				
FINLANDIA	1153	1813				
FINLUX	0973	1153	1813			
FOXTEL	0063	0123	1463	1493	1753	1823
FRACARRO	0023	0533	0773			
FTE	0323					
FUBA	0613	0633	1053			
GARDINER	1213					
GIUCAR RECORD	0203	0333				
GOLD BOX	1773	1783				
GOODMANS	1813					
GRANADA	1153					
GRUNDIG	0123	0943	0963	1123	1183	1203
	1683	1693	1703			
HIGH PERFORMANCE	0913					
HIRSCHMANN	0753	0963	1403	1413	1423	1433
	1443	1893				
HITACHI	0513	0703	0943	1813		
HOUSTON	1303					
HUMAX	2063					
ICX INTERNATIONAL	0883					
INNOVATION	2461					
ITT NOKIA	1153	1163	1913			
JEEMON	0143					
JERROLD	0843	0983				
JOHANSSON	0243					
JOK	0953					
JVC	1203	1273	1643			
KATHREIN	0113	0263	0273	0323	0363	1393
	1763					
KOSMOS	0263	0323				
KYOSTAR	1033	1083				
LENG	0243					
LIFESAT	1323	1343	1353	2461		
LUXOR	0133	0463	0503	1153	1163	1893
	1903					
MACAB	0353	1943				
MANHATTAN	1333	1813				
MARANTZ	1763					
MASPRO	0013	0113	0253	1183	1933	
MATSUI	1203					
MEDIASAT	1783					
MEDION	1323	1343	2461			
METRONIC	1973	1983	1993	2003	2013	2023
	2033	2043				
METZ	0963					
MICROMAXX	1323	1343	2461			
MINERVA	1203					
MITSUBISHI	0963					
MORGANS	0593					
MULTICHOICE	0123	1743				
MULTISTAR	0323					
MURATTO	0403					
MYRYAD	1763					
NEC	0283	0313	0763	0783	0833	
NIKKO	1133	1143				
NOKIA	1153	1163	1813	1893	1903	1913
	1923	1953				
NORSAT	0783					
ONDIGITAL	1523	1863	1873			

OPTUS	0123					
OTTO VERSAND	0963					
OURALIS	2053					
PACE	0933	1523	1573	1623	1633	1793
	1803	1813	1883	1933		
PACE MSS	0943					
PALCOM	0613	0683	0703			
PALLADIUM	1203					
PALSAT	0393					
PALTEC	0703					
PANSAT	0123	1073				
PANASONIC	0803	1463				
PANDA	1813					
PATRIOT	1643					
PHILIPS	0933	0953	1123	1183	1193	1203
	1533	1763	1773	1783	1813	1853
	1863	1873				
PIONEER	1773	1783				
PREMIERE	1163	1773	1783	1903		
PROMAX	1813					
PROSAT	1173					
PTT TELECOM	0303	0893				
QUELLE	0963					
RADIOLA	1763					
RADIX	1053					
REDIFFUSION	0313	0783				
RFT	1763					
SABA	0953	1333				
SABRE	1813					
SAGEM	1253	1933				
SAKURA	0563	0813				
SALORA	0133	0453	0483	0493	0573	1153
SAMSUNG	0743	0753	1563			
SAT	0403					
SATCOM	0893					
SATECO	0643					
SATELLITE	1543					
SATPARTNER	1333					
SCHNEIDER	1123					
SECTOR	1263					
SEDEA	1093					
SENTRA	0413					
SIEMENS	0893	0963				
SINTRACK	0903					
SKY (SKY Digital)	1453					
SKYSCAN	0873					
SONY	0733	0943				
STELLA	0303					
STREAM	0043					
STRONG	0123	0153	0393	1033	1083	
STV	0633					
SUN/MOON/STAR	1473					
TANDBERG	1113					
TANDY	0913					
TANTEC	0613	1813				
TATUNG	0513	0543				
TECHNISAT	0083	0093	0523	0553	1053	
TELECOM	0303					
TELEMAX	0583					
TELEVES	0173	0293	0443	0473	1313	1483
	1503	1513	1553	1653	1663	1713
	1723	1833	2073	2083		

TELE+	1843					
THOMSON	1783	1813				
THORN-FERGUSON	0073	0183				
TONNA	1303					
TOSHIBA	0943					
TPS	1373					
TRIAD	0403					
UEC	0123					
UNIDEN	0033	0213	0673	0713	0723	
UNIVERSUM	1203					
US ELECTRONICS	0883					
VENTANA	1763					
VORTEC	0753	1033	1073			
VTECH	0433					
WINERSAT	0243					
WISI	0053	0353	0373	0383	0403	0653
	1053	1813				
WOLSEY	0913					
WORLDSAT	1603	1613				
XSAT	1383	1963				
ZEHNDER	0263	0323	0343	0403	1213	1333
ZENDER	0403					
ZINWEL	2093					

CTV Device

Model	Code		
AUSTAR	0194		
CABLETIME	0084	0094	0114
CLYDE CABLEVISION	0064		
FILMNET	0034	0074	
FOXTEL	0154	0164	0174
FRANCE TELECOM	0024		
GEC	0064		
G.I.	0194	0214	
HK CABLE	0054	0204	
JERROLD	0054		
MOVIE TIME	0104		
NSC	0104		
OPTUS VISION	0184		
PHILIPS	0024		
SAMSUNG	0134		
SCIENTIFIC ATLANTA	0124	0144	
STARCOM	0054		
STS	0104		
TELE	0074		
TELE + 1	0074		
TELESERVICE	0044	0114	
TUDI	0014		
UNITED CABLE	0054		
ZENITH	0044		

DVD Device

Model	Code		
3DLAB	0155		
AKAI	0035		
CYBER HOME	0265		
DENON	0025		
GOLDSTAR	0125		
GRUNDIG	0155		
HARMAN KARDON	0205		
HITACHI	0195	0225	0275
JVC	0135	0145	
KENWOOD	0025	0085	
LASONIC	0115		
LG	0125		
LINN	0245		
LOEWE	0255		
MAGNAVOX	0055		
MARANTZ	0155		
MICROMEGA	0155		
MITSUBISHI	0005		
NAD	0215		
ONKYO	0055	0105	
OPTIMUS	0175		
PANASONIC	0025		
PHILIPS	0055	0155	0255
PIONEER	0175	0185	
SAMSUNG	0095	0225	
SHINSONIC	0075		
SONY	0045	0235	0285
SONY-PS2	0165		
TECHNICS	0025		
THOMSON	0015		
TOSHIBA	0055		
UNIVERSUM	0125		
X-BOX	0295		
YAMAHA	0025	0065	
ZENITH	0055	0125	